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N. S. Vyazankin, 7 pp.

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SIA R-1595

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Aug 58

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Unsteady Motions, by G. G. Chernyy, 27 pp.

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P100065667

FTD TT 65-1316

Sci-Phys
Mar 67

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An Approximate Method for the Calculation of the
Dimensions of Cracks Formed on Hydraulic Fracturing
of a Stratum, by U. P. Zheltov,

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ATC RJ-944

Sci - Eng
Jul 59

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Plaksin, I. N., Startchik, L. P., and
Turnikova, V. I.
MÉTHODE DE L'AUTORADIOGRAPHIE POUR ÉTUD-
IER LA RÉPARTITION DES REACTIFS DE PLOT-
TATION SUR LA SURFACE DES PARTICULES DE
MINÉRAIS SULFURÉS, tr. by M. B. De Trezvinaky.
8 Nov 59 [9]p. 5 refs. CEA Trans. no. R 770 (text in
French).

Order from OTS or SLA \$1.10

61-23742

Trans. in French of Akad[emiya] Nauk SSSR. Otdel[enie]
Tekh[nicheskikh] Nauk. Izvest[iya] 1957, no. 3,
p. 187-189.

DESCRIPTORS: *Flotation, Sulfur, *Sulfides, *Auto-
radiography, Particles, Chemical reactions, Ores,
*Minerals.

(Metallurgy. TT. v. 6, no. 6)

61-23742

I. Plaksin, I. N.
II. Startchik, L. P.
III. Turnikova, V. I.
IV. CEA-tr-R770
V. Commissariat à l'Énergie
Atomique (France)

176671

Office of Technical Services

Successive Stand-By Provisions, by Sh. L. Bebyashvili.
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No 3, 1957, pp 191, 192.
NASA TT F-8708

SH - M/M
Apr 64
U.S. GOVERNMENT ONLY

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On the Failure of Castings Under Shrinkage Stresses
During Solidification as Function of Composition of
Alloy, by A. A. Bochvar, Z. A. Sviderskaya. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 3,
1957, pp 349-355.

*HB 4806

Sci - Min/Met
May 60

NASA TT F-63

National Aeronautics and Space Administration.

EFFECT OF PERIODIC OSCILLATIONS OF
VELOCITY AND DENSITY OF A MEDIUM ON
DISINTEGRATION OF LIQUID JETS. (Vliyanieperiodicheskikh kolebaniy skorosti i plotnosti sredy
na raspad zhidkikh stroy.) I. F. Dityakin and V. I.
Yagodkin. April 1961. 11p. OTS price, \$0.50.(NASA TECHNICAL TRANSLATION F-63. Transla-
tion from Akademiia Nauk SSSR, Izvestiia, Otdelenie
Tekhnicheskikh Nauk, no. 4, 1957, p. 115-120.)

The influence of the oscillations of the velocity in a
liquid jet and the density of the medium surrounding
a cylindrical jet, on the disintegration of the jet, is
considered theoretically. The method of small per-
turbations beginning with the velocity potential
equation is used. The following conclusions were
derived: (a) during the oscillations of the velocity of
a liquid jet the character and the length of the waves
of the unstable perturbations are subject to change
and there appears a great number of separate

Copies obtainable from NASA, Washington

(over)

- I. Dityakin, I. F.
- II. Yagodkin, V. I.
- III. NASA TT F-63
- IV. Akademiia Nauk SSSR,
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no. 4, 1957, p. 115-120

(Initial NASA distribution:
20, Fluid mechanics;
37, Propulsion system
elements; 39, Propulsion
systems, liquid-fuel
rockets.)

NASA

The Corrosion of Steel Covered by Films
of Petroleum Bitumens in Sea Water, by
E. I. Gurovich, and A. S. Sosnina, 4 pp.

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Some Methods for the Calculation of Primary Creep
With Application to the Investigation of the Creep
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SLA 60-15836

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Vol 2, No 5

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Device for Direct Growing of Crystals from High-Reactivity Metal Powders, by D. A. Petrov, Yu. M. Smolnikov.

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Floitation by Fatty Acids at Low Pulp Temperatures,
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ABC NP Tr 106

Sci - Chem

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Metallurgical Properties of Ore-Coke Pellets, by
G. V. Gubin.

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No 6, Jun 1957, pp 32-36.

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Electrolytic Desulphurisation of Cast Iron,
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•BISI 4843

Sci-MEM
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The Turbulent Jet in a Moving Fluid, by G. E.
Abramovich. UNCL

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SLN 54-2153
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Navv Tr 3294/DNMB T-307

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*CFSTI TT 70-57074

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Sep 60

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23 refs. ARGMA Trans. nr. 59-61.
Order from OTS or SLA \$3.60

61-28836

Trans. of Akad[emiya] Nauk SSSR. Otdelenie Tekh[ni-
cheskikh] Nayk. Izvestiya, 1957, no. 8, p. 20-34.

DESCRIPTORS: *Plasticity, *Elasticity, Cylindrical
bodies, Elastic shells, Metals, Stresses, Deformation

The theory of heterogeneous elastic-plastic bodies is
applied to the problem of an heterogeneous, hollow,
eccentric, cut cylinder and to the adjacent problem of
the heterogeneous half-plane with a circular opening.
Some of its further applications are briefly examined

(Physics--Solid State, TT, v. 7, no. 8)

61-28836

- I. Oleshak, V.
- II. ARGMA Trans-59-61
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201560

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Motion of a Wing of Finite Span With Supersonic
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Tekhn. Nauch., No 6, 1957, pp 56-62.

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Nickel, Cobalt, and Their Mixtures, by V. V.
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Mineral Particles of the Adsorbed Layer of
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BISI 7487

Sci-Mech
Sep 70

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Sulphide Minerals With Xanthogenate in the
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Sci - Min/Met, *Styl*

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Trans. of Acad[emiya] Nauk SSSR. Otdel[eniye] Tekhnicheskikh Nauk. Izvest[iya] 1957, no. 10, p. 111-112.

(Metallurgy, TT, v. 5 no. 10)

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- I. Glembetskly, V. A.
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Order from OTS or SLA \$1.60

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Trans. in French of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest[iya] 1957, no. 11, p. 75-83.

DESCRIPTORS: *Convection, *Heat transfer, *Turbulent flow, Conductivity, Thermodynamics, USSR, Theory, Hydrodynamics, Viscosity.

Approximate equations are derived which express the (Physics--Thermodynamics, TT, v. 6, no. 6) (over)

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The Theory of Thermo-Gravitational Convection
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RAE 920

Sci - Phys

Sep 61

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Study of the Physical Processes in a Shock
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RAE 817

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Effect of the Radial Gradient of Temperatures on
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Sci - Phys; Min/Mat
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Handwritten: 44-242
AEC 3470

Sci - Nuc Phys

Jan 59

Handwritten: Chief Librarian

Handwritten: C. E. I. R. C.

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DESCRIPTORS: *Failure (Mechanics), *Stresses,
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